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## ANALYSIS OF SALT.

By G. E. Patrick, Prof. of Chemistry and Physics, in University of Kansas.

The purity of Kansas Salt, although its manufacture is a new industry in the State, has already been the subject of considerable remark. While it is very improbable that all the brines of the State will furnish salt of remarkable purity, yet it is worthy of notice, as a promising fact, that of those thus far examined, nearly every one has yielded a salt of most excellent quality.

To the number of such brines already known, I have one to add. The sample was from Great Bend, Barton county, and was taken from a well, at a depth of about four feet below the surface of the ground. Collected by Prof. B. F. Mudge. It was clear and sparkling, and very nearly free from calcium and magnesium carbonates, which when present in quantity are troublesome, from the fact of their deposition upon boiling, in the form of "scale."

It showed a specific gravity of 1.062 or 8.8 Baume—a great density considering that it was almost a surface water. Its contents of pure salt was one bushel, to about 95 gallons of the brine.

I have analyzed two samples of salt made from this brine, the samples being taken from salt made at different times, as a check against untrustworthy results, from accidental impurity or excessive purity.

Both salts were made with no extra precautions to insure purity, and fairly represent the quality of the marketable article for table use.

They gave upon analysis:

	No. 1	No. 2
Sodium Chloride .....	.96.24	96.06
Magnesium Chloride .....	1.22	1.56
Sodium Sulphate .....	1.65	1.87
Calcium Sulphate .....	.89	.51
<hr style="width: 20%; margin-left: 0; border: 0; border-top: 1px solid black;"/>		
	100.00	100.00

The entire absence of calcium chloride is a merit of this salt not to be overlooked.

## CALAMITES.

By M. V. B. Knox, Professor of Natural Science, Baker University.

In the soft sandstone on the banks of a creek about two and one-half miles southwest of Baldwin, are found Calamites in great numbers. The quarry is west of the Dr. Cowgill farm, at the crossing of the main road from Prairie City, over a small branch of Tahwo Creek. The Calamites are found in greatest abundance and of best quality a little north of the bridge, on the west bank.

During the winter of 1873-4, while passing down this creek in search of specimens, I noticed some Calamites cropping out of the rock, and afterwards succeeded in securing a few fine ones, but did not work the quarry